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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/574,535

08/23/2007

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EXAMINER

PANG, ROGER L

ART UNIT

PAPER NUMBER

3655

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PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b> 10/574,535	<b>Applicant(s)</b> HANSSON, GUNNAR CHRISTER	
	<b>Examiner</b> Roger L. Pang	<b>Art Unit</b> 3655	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 02 December 2010.
- 2a) ☒ This action is **FINAL**.                      2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 13-16 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 13-16 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All    b) ☐ Some \*    c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |   |   |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)         | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____                                      |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)         | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____   | 6) <input type="checkbox"/> Other: _____                          |

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### **DETAILED ACTION**

The following action is in response to the amendment filed for application 10/574,535 on December 2, 2010.

### **Claim Rejections - 35 USC § 103**

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 13-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Alexander '458 in view of Baker '279, in further view of Silvestri '323. With regard to claim 13, Alexander teaches a hand-held power nut runner 10, comprising: a housing 12 with a rotation motor 14, an output shaft 20, and a reduction gearing connecting the motor to the output shaft; wherein the reduction gearing comprises a plurality of planetary gearing stages 16 having a common ring gear 72 supported in the housing, and each one of the planetary gearing stages includes a sun gear 32/82, a planet wheel carrier 66/86, and a plurality of planet wheel units 62/84 engaging the ring gear and the sun gear, and wherein needle bearings 68/90 are used for rotational support. Alexander lacks the teaching wherein each of the planet wheel units of at least one of the planetary gearing stages comprises two axially spaced spur gears fitted to a common spindle. Baker teaches a similar planetary gearing comprising a ring gear 30, and planet gears 24/25 supported by a carrier 35 (connected to the output 21), wherein: each planet wheel unit comprises two axially spaced spur gears 24/25 mounted on a common spindle 26a

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that is rotatively journaled relative to the planet wheel carrier 35 via a bearing 27; and wherein both spur gears are rigidly secured to the common spindle (Cols. 3-4). It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Alexander to employ the dual spur gear planet gear and carrier/bearing arrangement (using the needle bearings of Alexander) in view of Baker in order to improve both the reliability by improving the work transmitted by the parts (Col. 1). Alexander and Baker teach the power nut runner, but lack the specific teaching of how said spur gears are rigidly secured to said common spindle. Silvestri teaches a transmission comprising adjacent spur gears 94/96, wherein the first spur gear 94 is rigidly secured to a common spindle (integral with the spindle), while the second spur gear 96 is rigidly secured to the common spindle via a wringing fit (Col. 2). It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Alexander in view of Baker to employ a wringing fit as a means of securing a spur gear to the common spindle in order to provide a reliable means to attach the gear to the spindle while saving on parts. Also, using a wringing fit would have been obvious to one of ordinary skill in the art because the technique for attaching gears to spindles via wringing fit is a known technique that yields predictable results. With regard to claim 14, Alexander and Baker teach the power nut runner, wherein the planet wheel carrier 86; 35 of said at least one of the planetary gearing stages is coupled to the output shaft 20; 21. With regard to claims 15 and 16, Alexander teaches the power nut runner, wherein said sun gear 82 of said at least one of the planetary gear stages forms a part of a planet wheel carrier 66 of a preceding planetary gearing stage.

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### **Response to Arguments**

With regard to the Baker reference, applicant argues that the spur gears 24 and 25 are merely "mounted on the hub or shaft 26a" and not necessarily rigidly fixed. However, given the description of the device in Columns 3-4, it can be shown that the spindle 26a itself can move relative to the bearings 28, but the distance between the spur gears A is always constant because they are rotationally and axially fixed to the spindle. Baker only lacks the specific teaching of how the spur gears are rigidly mounted to the spindle.

Applicant's arguments have been considered, but are not persuasive.

### **Conclusion**

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Suzuki has been cited to show the teaching of mounting a gear onto a shaft via wringing fit.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a).

Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

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however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Suzuki has been cited to show the teaching of mounting a gear onto a shaft via wringing fit.

#### FACSIMILE TRANSMISSION

Submission of your response by facsimile transmission is encouraged. The central facsimile number is (571) 273-8300. Recognizing the fact that reducing cycle time in the processing and examination of patent applications will effectively increase a patent's term, it is to your benefit to submit responses by facsimile transmission whenever permissible. Such submission will place the response directly in our examining group's hands and will eliminate Post Office processing and delivery time as well as the PTO's mail room processing and delivery time. For a complete list of correspondence not permitted by facsimile transmission, see MPEP 502.01. In general, most responses and/or amendments not requiring a fee, as well as those requiring a fee but charging such fee to a deposit account, can be submitted by facsimile transmission. Responses requiring a fee which applicant is paying by check should not be submitting by facsimile transmission separately from the check.

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Responses submitted by facsimile transmission should include a Certificate of Transmission (MPEP 512). The following is an example of the format the certification might take:

I hereby certify that this correspondence is being facsimile transmitted to the Patent and Trademark Office (Fax No. (571) 273-8300) on \_\_\_\_\_ (Date)

Typed or printed name of person signing this certificate:

\_\_\_\_\_  
\_\_\_\_\_

(Signature)

If your response is submitted by facsimile transmission, you are hereby reminded that the original should be retained as evidence of authenticity (37 CFR 1.4 and MPEP 502.02). Please do not separately mail the original or another copy unless required by the Patent and Trademark Office. Submission of the original response or a follow-up copy of the response after your response has been transmitted by facsimile will only cause further unnecessary delays in the processing of your application; duplicate responses where fees are charged to a deposit account may result in those fees being charged twice.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Roger L. Pang whose telephone number is 571-272-7096. The examiner can normally be reached on 5:30am to 4:00pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Le can be reached on 571-272-7092. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Roger L Pang/  
Primary Examiner, Art Unit 3655

Roger L Pang  
Primary Examiner  
Art Unit 3655

December 30, 2010